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**DYNAMIC PROGRAMMING:
A BIBLIOGRAPHY OF THEORY
AND APPLICATION**

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PREFACE

Dynamic programming may be described as a mathematical theory of multistage decision processes. The method presented by this theory provides a valuable tool for the investigation of many challenging problems in such diverse fields as economics, engineering, systems analysis, and biomedical research. A bibliography of publications devoted to the theory and application of dynamic programming should prove helpful in all phases of problem solving—recognition, formulation, analysis, computation, and reformulation—for these different scientific areas.

Some of the publications cited in this bibliography are not directly concerned with dynamic programming, but they were nevertheless included because they contain allied concepts and, in some cases, valuable bibliographies.

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The bibliography is divided into three different parts: first, there is a chronological ordering of publications, with authors listed alphabetically under each year; second, an alphabetical index of authors; third, a subject index, with authors listed alphabetically under each subject category.

The present bibliography is intended as a supplement to an earlier one (RM-3951-PR) that the authors prepared on the same subject. Accordingly, the subject index lists all nineteen of the topics that were mentioned in the other bibliography, even though the present one may not contain any entries for certain of these topics.

CONTENTS

PREFACE.	iii
BIBLIOGRAPHY OF PAPERS AND BOOKS	1
AUTHOR INDEX	77
SUBJECT INDEX.	109
ABBREVIATIONS.	142

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Harris, C. C., Jr., see O. R. Burt, 1963
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Hennig, G. R., see J. E. Funk, 1963
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——, see Y. Fang, 1961
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——, see R. Bellman, 1958, 1962, 1963
——, see R. Bellman, and G. M. Wing, 1960
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Kalecki, M., 1939^{*}
Kallay, N., 1961
——, see R. E. George, 1963
Kalman, R. E., 1957, 1960, 1961, 1962, 1963
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Kamins, M., 1960
——, see S. I. Firstman, and B. J. Voosen, 1960
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Kantorovitch, L. V., and M. K. Gavurin, 1949
Karlin, S., 1952, 1958, 1960
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——, see K. J. Arrow, and M. J. Beckmann, 1958
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Karnopp, D. C., 1963
Karp, R. M., see M. Held, 1962
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Kelendzeridze, D. L., 1961
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——, and R. J. Ringlee, 1963
Kitagawa, T., 1952, 1961, 1963
Klein, M., 1961, 1962
——, and L. Rosenberg, 1960
Knight, F. H., 1921^{*}
Kochen, M., 1962
Kochubievskii, I. D., and G. M. Ulanov, 1963
Koenigsberg, E., 1961
Koepcke, R. W., see R. E. Kalman, 1958, 1959
Kolmogorov, A. N., 1941
Koopman, B. O., 1956, 1957
Koopmans, T. C., 1951^{*}, 1957^{*}
Korobko, M., and Yu. Samoilenko, 1963
Krakauer, L. J., 1963
Krasovski, A. A., 1961
Krasovskii, N. N., 1957, 1958, 1962, 1963
Kreindler, E., 1963
Krolak, P., and L. Cooper, 1963
Kron, G., 1953, 1955
Kruskal, J. B. Jr., see J. J. Wolf, 1950
Krylov, V. Yu., and M. L. Tsetlin, 1963
Julikowski, R., 1961, 1963
Kurland, L., see R. Bellman, and M. Friend, 1963
Kurz, M., 1963
Kushner, H. J., 1962

L

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Lane, R., see R. Ebal, 1960
Lapidus, L., see R. E. Kalman, and E. Shapiro, 1959
Laplace, P. S., 1952^{*}
LaSalle, J. P., 1961
———, see R. Bellman, 1949
———, see J. K. Hale, 1963
Lawless, W. J. Jr., see F. S. Beckman, and F. P. Brooks, 1961
Ledley, R. S., 1960
———, and L. B. Lusted, 1959, 1960
Lee, A. M., 1963
Lee, E. B., 1960
Lee, E. S., 1963
Leichner, G. H., 1957
Lendaris, G. G., and G. L. Stanley, 1963
Leondes, C. T., see M. Margolis, 1960, 1961
Leontief, W., 1959
Leslie, P. H., 1958
Letov, A. M., 1960
Lewis, J. B., and J. T. Tou, 1963
Lindley, D. V., 1956
Lindsey, G. R., 1959, 1963
Liozner, L. D., 1962
Littauer, S. B., see J. Laderman, and L. Weiss, 1953
Llewellyn, R. W., 1961
Loberman, H., and A. Weinberger, 1957
Loeb, H. L., 1959
Loftsgard, L. D., and E. O. Heady, 1959
Lusted, L. B., 1960
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———, see R. S. Ledley, 1959, 1960
Lyapunov, A. A., see S. L. Sobolev, 1959

M

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Magwire, C. A., 1953
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Maitland, J., see J. Banbury, 1961
Maitra, K. K., 1961
Makabe, H., and H. Morimura, 1963
Malinvaud, E., 1953, 1959
Mancini, A. R., see J. A. Aseltine, and C. W. Sarture, 1958
Manne, A. S., 1957, 1958, 1960
Mansfield, E., and H. Wein, 1958
Marcassi, R., 1963
March, L., see T. Cyert, 1963
Marcus, M. B., and P. Swerling, 1962
Margolis, M., 1960
———, and C. T. Leondes, 1960, 1961
Marill, T., 1963
Marschak, J., 1955, 1961
———, see G. Becker, and M. DeGroot, 1962
———, and R. Radner, 1959
Marshall, A. W., 1956
Martin, J. J., 1963
Maruyama, M., 1963
Masse, M. P., and M. G. Morlat, 1953
Masse, P., 1946
Mela, D. F., 1961
Mellon, B., see A. Charnes, and W. W. Cooper, 1959
Merriam, C. W. III, 1959, 1960, 1961
Mesarovic, M. D., 1962
Metzelaar, P. N., 1959
Meyer, W. L., and L. R. Shaffer, 1963
Miller, M. H., see F. Modigliani, 1958
Mills, E. S., 1957, 1959
Milsum, J. M., 1961
Minsky, M. L., 1956
Minty, G. J., 1957, 1958

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Mishkin, E., and L. Braun, 1961*
———, see L. Braun, and J. G. Truxal, 1961
Mitten, L. G., 1959
Miyasawa, K., 1962
Modigliani, F., see C. C. Holt, and J. F. Muth, 1956
———, see C. C. Holt, and H. A. Simon, 1955
———, and M. H. Miller, 1958
Mohan, C., and R. C. Garg, 1961
Moore, E. F., and C. E. Shannon, 1956
Moran, P. A. P., 1954
Moreau, J. J., 1963
Morgenstern, O., 1963*
———, see J. von Neumann, 1953*
Morikawa, M., 1962
Morimura, H., see H. Makabe, 1963
Morlat, G., 1951
Morlat, M. G., see M. P. Masse, 1953
Morse, M., and G. Hedlund, 1938
Motzkin, T. S., 1955
Mullin, A. A., 1959
Muth, J. F., 1963
———, see C. C. Holt, and F. Modigliani, 1956
Mycielski, J., 1962

Mc

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McDonald, D., 1954
McGlothlin, W. H., see E. E. Bean, 1959

N

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Naddor, E., 1956
Naslund, B., 1963
Naslund, B., and A. Whinston, 1962
Nerlove, M., 1958
Netherwood, D., 1958
Neyman, J., 1947
Niehans, J., 1948
Novoseltsev, V. V., 1963
Nowinski, J., and W. Sadowski, 1954

O

Odanaka, T., 1960, 1963, 1963*

———, and K. Maeda, 1960

Oldenbourg, R. C., and H. Sartorius, 1954

Oldenbourger, R., and G. Thompson, 1963

Orford, R. J., 1963

Osborn, H., 1954, 1955

Ostrovskii, G. M., 1962

Ostrowski, A., 1954

Overall, J. E., and C. M. Williams, 1961

P

- Pandit. S. N. N., 1962
Pappo, H. A., see P. L. Simmons, 1960
Pashkovskii, S., 1963
Pavley, R., see W. Hoffman, 1959
Pavlidis, M., see E. I. Jury, 1963
Paycha, F., 1960
Pearson, J. D., see J. H. Westcott, and J. J. Florentin, 1963
Peisakoff, M. P., 1952
Perel'man, I. I., 1958, 1960
Peterson, E. L., 1961, 1961*
Petrov, B. N., 1961
Petrovic, R., see M. Gavrilovic, and D. Siljak, 1963
Phipps, C. G., 1947
Polak, E., see C. A. Desoer, and J. Wing, 1963
Pollack, M., 1961
———, and W. Wiebenson, 1961
Polya, G., 1945*
Pontryagin, L. S., 1959
———, see E. F. Mischenko, 1958
Pospelov, G. S., 1962
Pottle, C., 1963
Prager, W., 1956
Prim, R. C., 1957
Princeton University, 1958, 1960
Proschan, F., 1960
———, see G. Black, 1959
Pun, L., 1961, 1963

R

- Radner, R., 1955, 1959, 1961
———, and D. W. Jorgenson, 1962
———, see J. Marschak, 1959
Raiffa, H., and R. O. Schlaifer, 1961^{*}
Rakovshchik, L. S., 1962
Ramsey, F. P., 1928
Reisman, A., and E. S. Buffa, 1962
Repin, Yu. M., and V. I. Tret'yakov, 1963
Restrepo, R., see S. Karlin, 1957
Riley, V., and S. I. Gass, 1958^{*}
Rindung, O., 1961
Ringlee, R. J., see L. K. Kirchmayer, 1963
Robbins, H., 1961
Roberts, D. M., 1959
Roberts, S. M., 1961
———, and T. M. Stout, 1959
Robinson, A. S., 1961
Robinson, J., 1951
Rockoff, M. L., 1960
Rockwell, T. H., see A. B. Bishop, 1958
Roitenberg, Ya. N., 1960
Romig, H. G., see H. F. Dodge, 1929, 1941
Rose, N. J., 1953
Rosenberg, L., see M. Klein, 1960
Rosenblatt, F., 1958
Roth, J. P., 1959, 1960
Rowe, A. J., and J. R. Jackson, 1956
Roxin, E., 1962
Rozonoer, L. I., 1959
Rubin, H., see M. A. Grishick, 1952
Rudd, D. F., 1962
———, R. Aris, and N. R. Amundson, 1961
Ruge, H., 1963
Rupe, C. E., see C. B. Crumb, Jr., 1959

S

- Sadowski, W., see J. Nowinski, 1954
Sakaguchi, M., 1962, 1963
Sakrison, D. J., 1961
Salukvadze, M. E., 1963
Salveson, M. E., 1952, 1955, 1956, 1961
Samoilenko, Yu., see M. Korobko, 1963
Samuel, A. L., 1959
Samuelson, P. A., 1958
Sararchik, P. E., see J. E. Bertram, 1961
Sartorius, H., see R. C. Oldenbourg, 1954
Sarture, C. W., see J. A. Aseltine, and A. R. Mancini, 1958
Sasieni, M. W., 1956
Savage, I. R., 1956
Savage, L. J., see L. E. Dubins, 1963*
Scarf, H., 1957, 1958, 1959, 1960, 1963
——, see A. J. Clark, 1960
——, D. M. Gilford, and M. W. Shelly, 1963*
——, see S. Karlin, 1958
——, and L. S. Shapley, 1954, 1957
Schertz, D. R., 1963
Schild, A., 1959
——, and I. J. Fredman, 1961, 1962
Schlager, K. J., 1959
Schlaifer, R. O., see H. Raiffa, 1961*
Schneider, E., 1938
Schottstaedt, W. W., see E. N. Brandt, Jr., and J. A. Hagans, 1962
Schupack, M. B., 1959
Schurmann, E. E. H., 1957
Schwartz, L., 1958
Schwartz, L. S., B. Harris, and A. Hauptschein, 1959
——, see B. Harris, and A. Hauptschein, 1957
Seligman, B. B., 1962
Shaffer, L. R., see W. L. Meyer, 1963
Shakun, M. F., 1962

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———, see E. F. Moore, 1956
———, and W. Weaver, 1949^{*}
Shapiro, E., see R. E. Kalman, and L. Lapidus, 1959
Shapley, L. S., see H. Scarf, 1954, 1957
Shelly, M. W., see H. Scarf, and D. M. Gilford, 1963^{*}
Shetty, C. M., see D. E. Wagner, 1962
Shiffman, M., 1953
Shimbel, A., 1955
Siegel, S., 1961
Siljak, D., see M. Gavrilovic, and R. Petrovic, 1963
Silvestri, M., see E. Cerrai, and S. Villani, 1956
Simmons, P. L., and H. A. Pappo, 1960
Simon, H. A., see C. C. Holt, 1954
———, see C. C. Holt, and F. Modigliani, 1955
Sklansky, J., 1962
Smith, C. A. B., 1947
Smith, F. T., 1963
Smith, J. E. K., 1961
Smith, O. J. M., 1961
Smith, P. A., 1961
Smith, W., 1955
Smithies, A., 1939
Sobel, M., and P. A. Groll, 1959
Sobolev, S. L., and A. A. Lyapunov, 1959
Solomon, H., see C. Derman, 1958
Stakhovskii, R. I., 1963
Stanley, G. L., and G. G. Lendaris, 1963
Stedry, A. C., 1958
Steinhaus, H., 1949
Stikhin, V. N., 1963
Stoleru, L. G., 1963
Stoller, D. S., 1963
Stone, H., 1961

- Stout, T. M., see S. M. Roberts, 1959
Stratonovich, R. L., 1963
Stromer, P. R., 1959
Stumpers, F. L., 1953, 1955, 1957
Swerling, P., 1959, 1960
———, and M. B. Marcus, 1962
Symonds, G. H., 1962

T

- Takahashi, M., 1963
Takeuchi, K., 1962
Terborgh, G. W., 1949*
Theil, H., 1954, 1957
Thomas, H. E., 1960
Thompson, G., see R. Oldenburger, 1963
Thompson, G. L., see R. M. Cyert, and H. J. Davidson, 1962
——, see B. Giffler, 1960
Thompson, W. R., 1933, 1935
Tisza, L., 1963
Tonge, F. M., 1960
Tou, J. T., 1961
——, and P. D. Joseph, 1963
——, see J. B. Lewis, 1963
——, and B. Vadhanaphuti, 1961
Tou, Tsu-Lieh, 1959*
Trakhtenbrot, B. A., 1960*
Tret'yakov, V. I., see Yu. M. Repin, 1963
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Truxal, J. G., 1959, 1960
——, see L. Braun, and E. Mishkin, 1961
Tsetlin, M. L., 1961
——, see I. M. Gelfand, 1960, 1962
——, see V. Yu. Krylov, 1963
Tsien, H. S., 1954*

U

Ulam, S. M., 1960*

Ulanov, G. M., see I. D. Kochubievskii, 1963

USSR, 1960, 1961, 1962

V

- Vadhanaphuti, B., see J. T. Tou, 1961
Vandenberg, S. G., 1960
van der Burg, A. R., 1958, 1960
Vander Velde, W. E., see T. L. Yao, 1961
Varygin, V. N., 1961
Vassian, H. J., 1955
Vazsonyi, A., 1954, 1956, 1959, 1963
Veinott, A. F. Jr., 1963
Viglione, S. S., see R. D. Joseph, and P. M. Kelly, 1963
Villani, S., see E. Cerrai, and M. Silvestri, 1956
von Neumann, J., 1952
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Voosen, B. J., see S. I. Firstman, 1960
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W

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Wagner, H. M., 1960, 1962*
Wald, A., 1947, 1947*
Walters, A. A., 1963
Warner, H. R., et al., 1961
Warten, R. M., 1963
Wasserman, P., 1963
Watt, K. E. F., 1961, 1962
Weaver, W., see C. E. Shannon, 1949*
Weimer, D. L., 1963
Wein, H., see E. Mansfield, 1958
Weinberger, A., see H. Loberman, 1957
Weiss, G. H., 1956
Weiss, L., see J. Laderman, and S. B. Littauer, 1953
Westcott, J. H., 1960
———, J. J. Florentin, and J. D. Pearson, 1963
Wester, L., see M. D. Kilbridge, 1962
Whalen, B. H., see Y. C. Ho, 1963
Whinston, A., see B. Naslund, 1962
White, B., 1956
White, D. J., 1962, 1963
Whitelaw, S., 1963
Whitin, T. M., 1950, 1954
———, see G. Hadley, 1962, 1963, 1963*
Whittle, P., 1954
Widrow, B., 1961, 1962
Wiebenson, W., see M. Pollack, 1961
Wiener, N., 1956, 1958*
Williams, C. M., see J. E. Overall, 1961
Willis, P. A., 1963
Wilson, K. B., see G. E. P. Box, 1951
Wilson, R. H., 1947
Wing, G. M., see R. Bellman, and R. E. Kalaba, 1960

- Wing, J., see C. A. Desoer, 1961
———, see C. A. Desoer, and E. Polak, 1963
Wold, H., 1963
Wolf, J. J., and J. B. Kruskal, Jr., 1950
Wolfe, P., 1959*
Wolfowitz, J., 1956, 1958
———, see A. Dvoretzky, and J. Kiefer, 1953
Wonham, W. M., 1963

Y

Yamazaki, T., see T. Fukao, 1959

Yao, T. L., and W. E. Vander Velde, 1961

Yaspan, A., 1961

Youle, P. V., see G. E. P. Box, 1955

Young, L. H., 1959

Yudin, D. B., see E. G. Gol'shtein, 1963

Z

Zabel, E., 1963

Zadeh, L., 1958

———, and J. H. Eaton, 1963

Zimmerman, S., 1959

Zoutendijk, G., 1960*

SUBJECT INDEX

1. Allocation Processes
2. Calculus of Variations
3. Communications and Information Theory
4. Control Processes
5. Equipment Replacement and Inventory Theory
6. Game Theory
7. Maximization and Minimization
8. Multistage Production and Scheduling Theory
9. Optimal Routing and Trajectory Theory
10. Mathematical Physics
11. Reliability
12. Search Processes
13. Sequential Analysis
14. Transportation Processes
15. Stochastic Variational Processes
16. Adaptive Processes
17. Analytic Results
18. Computational Aspects
19. Surveys

1. ALLOCATION PROCESSES

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Debreu, G., 1951

Everett, H. III, 1963

Goldstein, A. A., 1963

Harris, C. C. Jr., see O. R. Burt, 1963

Karush, W., 1962

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Masse, M. P., and M. G. Morlat, 1953

Morlat, M. G., see M. P. Masse, 1953

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Sadowski, W., see J. Nowinski, 1954

Steinhaus, H., 1949

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Walters, A. A., 1963

2. CALCULUS OF VARIATIONS

3. COMMUNICATIONS AND INFORMATION THEORY

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Hauptschein, A., see L. Schwartz, and B. Harris, 1959
Kelly, J. L. Jr., 1956
Kochubievskii, I. D., and G. M. Ulanov, 1963
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Llewellyn, R. W., 1961
Marcus, M. B., and P. Swerling, 1962
Mela, D. F., 1961
Radner, R., 1961
Schwartz, L., 1958
Schwartz, L. S., B. Harris, and A. Hauptschein, 1959
Shannon, C. E., 1948
———, and W. Weaver, 1949*
Shimbel, A., 1955
Swerling, P., 1960
———, and M. B. Marcus, 1962
Ulanov, G. M., see I. D. Kochubievskii, 1963
Weaver, W., see C. E. Shannon, 1949*
Wiener, N., 1956
Wolfowitz, J., 1958

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4. CONTROL PROCESSES

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Aizerman, M. A., 1963^{*}
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Amundson, N. R., see D. F. Rudd, and R. Aris, 1961
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Andrew, A. M., 1961
Aoki, M., 1961
Aris, R., see D. F. Rudd, and N. R. Amundson, 1961
Astrom, K. J., 1961, 1962, 1963
Azen, S., R. Bellman, and S. E. Dreyfus, 1963
Barbashin, Ye. A., 1963
Bass, R. W., 1956
Beckwith, R. E., 1959
Bellman, R., 1962
——, see S. Azen, and S. E. Dreyfus, 1963
——, I. Glucksberg, and O. A. Gross, 1954
Bertram, J. E., see R. E. Kalman, 1959
——, and P. E. Serarchik, 1961
Braun, L., see E. Mishkin, 1961^{*}
——, E. Mishkin, and J. G. Truxal, 1961
Bucy, R. S., and J. W. Follin, Jr., 1962
——, see R. E. Kalman, 1961
Bushaw, D., 1963
Butkovskii, A. G., 1961
Chang, S. S. L., 1961, 1961^{*}
Chen, P. P., 1962
Chichinadze, V. K., 1961
Clynes, M., 1961
Cox, H., 1963
DeCarlo, C. R., 1954
Desoer, C. A., E. Polak, and J. Wing, 1963
——, and J. Wing, 1961
Dorato, P., 1963

- Dreyfus, S. E., 1963
———, see S. Azen, and R. Bellman, 1963
Eaton, J. H., 1962
Fang, Y., and T. J. Higgins, 1961
Fel'dbaum, A. A., 1955, 1959, 1961
Florentin, J. J., 1961
———, see J. H. Westcott, and J. D. Pearson, 1963
Follin, J. W. Jr., see R. S. Bucy, 1962
Freimer, M., 1960
Fuller, A. T., 1960
Funk, J. E., and G. R. Hennig, 1963
Gamkrelidze, R. V., 1958
Gavrilovic, M., R. Petrovic, and D. Siljak, 1963
George, R. E., and N. Kallay, 1963
Giguët, R., 1945
Girsanov, I. V., 1961
Glicksberg, I., see R. Bellman, and C. A. Gross, 1954
Gol'shtein, E. G., and D. B. Yudin, 1963
Gorban, A. V., 1963
Grabbe, E. M., 1961
Gray, K. B., 1963
Gross, O. A., see R. Bellman, and I. Glicksberg, 1954
Halkin, H., 1963
Harris, B., A. Hantschein, and L. S. Schwartz, 1957
Hantschein, A., see B. Harris, and L. S. Schwartz, 1957
Hennig, G. R., see J. E. Funk, 1963
Higgins, T. J., see Y. Fang, 1961
Ho, Y. C., 1961, 1962, 1963
Ho, Y. C., and B. H. Whalen, 1963
Howard, R. A., 1961
Ivakhnenko, A. G., 1962
Joseph, P. D., 1961
Kallay, N., 1961
———, see R. E. George, 1963

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——, and J. E. Bertram, 1959
——, and R. S. Bucy, 1961
——, and R. W. Koepcke, 1958, 1959
——, L. Lapidus, and E. Shapiro, 1959
Katona, P. G., 1963
Kelendzeridze, D. L., 1961
Kirchmayer, L. K., 1961
Kitagawa, T., 1963
Kochubievskii, I. D., see G. M. Ulanov, 1963
Koepcke, R. W., see R. E. Kalman, 1958, 1959
Kolmogorov, A. N., 1941
Krasovski, A. A., 1961
Krasovskii, N. N., 1957, 1958, 1962, 1963
Kreindler, E., 1963
Kulikowski, R., 1961, 1963
Kushner, H. J., 1962
Lapidus, L., see R. E. Kalman, and E. Shapiro, 1959
LaSalle, J. P., 1961
Lee, E. B., 1960
Lee, E. S., 1963
Letov, A. M., 1960
Lewis, J. B., and J. T. Tou, 1963
Lyapunov, A. A., see S. L. Sobolev, 1959
Maeda, K., see T. Odanaka, 1960
Maitra, K. K., 1961
Marcacci, R., 1963
Martin, J. J., 1963
Maruyama, M., 1963
Masse, P., 1946^{*}
McDonald, D., 1954
Merriam, C. W. III, 1959, 1961
Milsum, J. M., 1961
Mishkin, E., and L. Braun, 1961^{*}
——, see L. Braun, and J. G. Truxal, 1961

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Odanaka, T., 1960, 1963
———, and K. Maeda, 1960
Oldenbourg, R. C., and H. Sartorius, 1954
Oldenburger, R., and G. Thompson, 1963
Ostrovskii, G. M., 1962
Pashkovskii, S., 1963
Pearson, J. D., see J. H. Westcott, and J. J. Florentin, 1963
Perel'man, I. I., 1960
Peterson, E. L., 1961, 1961*
Petrov, B. N., 1961
Petrovic, R., see M. Gavrilovic, and D. Siljak, 1963
Polak, E., see C. A. Desoer, and J. Wing, 1963
Pontryagin, L. S., 1959
Pospelov, G. S., 1962
Pottle, C., 1963
Proschan, F., 1960
Pun, L., 1961, 1963
Rakovshchik, L. S., 1962
Repin, Yu. M., and V. I. Tret'yakov, 1963
Roberts, S. M., and T. M. Stout, 1959
Robinson, A. S., 1961
Rose, N. J., 1953
Roxin, E., 1962
Rozonoer, L. I., 1959
Rudd, D. F., 1962
———, R. Aris, and N. R. Amundson, 1961
Salukvadze, M. E., 1963
Sararchik, P. E., see J. E. Bertram, 1961
Sartorius, H., see R. C. Oldenbourg, 1954
Schurmann, E. E. H., 1957
Schwartz, L. S., see B. Harris, and A. Hauptschein, 1957
Seligman, B. B., 1962
Shapiro, E., see R. E. Kalman, and L. Lapidus, 1959
Siljak, D., see M. Gavrilovic, and R. Petrovic, 1963

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Sobolev, S. L., and A. A. Lyapunov, 1959
Stout, T. M., see S. M. Roberts, 1959
Stratonovich, R. L., 1963
Swerling, P., 1959
Thompson, G., see R. Oldenburger, 1963
Tou, J. T., 1961
———, see J. B. Lewis, 1963
———, and B. Vadhanaphuti, 1961
Tou, Tsu-Lieh, 1959*
Tret'yakov, V. I., see Yu. M. Repin, 1963
Truxal, J. G., 1960
———, see L. Braun, and E. Mishkin, 1961
Tsien, H. S., 1954*
Ulanov, G. M., see I. D. Kochubievskii, 1963
USSR, 1960, 1961, 1962
Vadhanaphuti, B., see J. T. Tou, 1961
Vander Velde, W. E., see T. L. Yao, 1961
Varygin, V. N., 1961
Vassian, H. J., 1955
Vazsonyi, A., 1956
Watt, K. E. F., 1961, 1962
Westcott, J. H., 1960
———, J. J. Florentin, and J. D. Pearson, 1963
White, B., 1956
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BLANK PAGE

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ABBREVIATIONS

ACM	Association for Computing Machinery
AIEE	American Institute of Electrical Engineers
AMS -SIAM	American Mathematical Society - Society for Industrial and Applied Mathematics
ASME	American Society of Mechanical Engineers
IAS -ARS	Institute of Aeronautical Sciences - American Rocket Society
IBM	International Business Machines
IEEE	Institute of Electrical and Electronic Engineers
IFAC	International Federation of Automatic Control
IRE	Institute of Radio Engineers
M.I.T.	Massachusetts Institute of Technology
O.N.R.	Office of Naval Research
PGAC	Professional Group on Automatic Control
PGEC	Professional Group on Electronic Computers
PMM	Applied Mathematics and Mechanics
RIAS	Research Institute for Advanced Studies
SIAM	Society for Industrial and Applied Mathematics
TEMPO	Technical Military Planning Operation